

OHIO AGRICULTURAL EXPERIMENT STATION
Vegetable Crops Substation, Marietta, Ohio

Department of Horticulture Mimeograph Series No. 264
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SWEET CORN VARIETY TRIALS - 1961
Marietta, Ohio

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Cataloged
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In the 1961 sweet corn trials at Marietta forty-eight varieties were evaluated for fresh market in single row plots replicated five times. Each plot consisted of 21 hills spaced 18" in rows spaced 36". Four kernels per hill were planted with a hand-jabber on May 15. Stand counts were made at the 2-3 leaf stage to determine germination and emergence, later the seedlings were thinned to two plants per hill permitting a maximum stand of 19,360 plants per acre. A cover crop of barley was plowed down and 100 lbs/A of 12-12-12 drilled and disked in prior to planting. One side-dressing of 100 lbs/A of ammonium nitrate was applied where plants were 10" to 12" high on June 16. Plants were not sprayed for control of flea beetle, corn borer, or corn ear worm. First harvest made on July 28, 1961.

The symbols and rating systems used are as follows:

Average Depth of Kernel: Average length of 3 kernels from center section of 3 ears selected at random from each plot.
Color of Kernel: LY - light yellow, My - medium yellow, DY - dark yellow, B - bright, I - intermediate, D - dull.
Ease of Snapping: 1 - very difficult to 5 - easy snapped.
Shanks: 1 - long, over 6 inches to 5 - short 1 inch or less.
Flag Number: 1 - none to 5 - over eight.
Flag Length: 1 - less than 2 inches to 5 - over eight inches.
Tip Cover: 1 - exposed to 5 - long, extending 3 inches or more.
Silk Color: 1 - dark brown to 5 - clear or white.
Husk Tightness: 1 - loose to 5 - tight.
General Uniformity: 1 - poor to 5 - excellent.

<u>Code</u>	<u>Source of Seed</u>	<u>Source</u>
A ₂	Asgrow Seed Co., Inc., 272 George St., New Haven 2, Conn.	
B ₁	W. Atlee Burpee & Co., Huntington Park Ave. at 18th St., Phila, 32, Pa.	
F ₁	Ferry-Morse Seed Co., P.O. Box 254, Racine, Wisc.	
H ₁	Joseph Harris & Co., Inc., Moreton Farms, Rochester, N.Y.	
H ₂	Holmes Seed Co., 1017 9th St. S.W., Canton 11, Ohio.	
L ₂	Letherman Seed Co., 501 McKinley Ave. N.W., Canton 2, Ohio.	
R ₁	Robson Quality Seeds, Inc., Hall, N.Y.	
R ₂	Rogers Brothers Seed Co., P.O. Box 2188, Idaho Falls, Idaho.	
S ₄	Seed Research Specialists, Inc., P.O. Box 3091, Modesto, Calif.	

GENERAL COMMENTS

The weather during the early growing season was cold and wet resulting in poor germination and uneven emergence with seedlings generally showing poor vigor and color. After sidedressing, and subsequent warm weather, growth improved. Yields were near normal on check varieties. Mean temperatures and rainfall recorded at the Vegetable Crops Substation, Marietta, were as follows:

	<u>Mean Temp.</u>	<u>Rainfall</u>
May	57.6° F.	2.87"
June	66.8	5.95
July	71.8	5.07
Aug.	72.4	3.54

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Table 1
Vegetable Crops Substation
SWEET CORN VARIETY TRIALS - Marietta, Ohio, 1961

Row No.	VARIETY AND LOT NUMBER		Source	Days to First Harvest	Marketable Yield/Acre		Average Weight of Ears Unhusked	Average Length of Ears Husked	Average Diameter of Ears Husked	Percentage of Ears Having Given Number of Rows of Kernels								Average Depth of Kernel	Color Kernel	Ear Smut	Ear Worm	Ease of Snapping (1-5)	Shanks (1-5)	Flag Number (1-5)	Flag Length (1-5)	Tip Cover (1-5)	Silk Color (1-5)	Husk Color (1-5)	Husk Tightness (1-5)	General Uniformity(1-5)
					Dozens of Ears	Weight (Tons)				3	10	12	14	16	18	20	22													
1.	North Star	1900T	H ₁	74	1152	4.3	.62	6.9	1.55	10	25	65	-	-	-	-	-	8.2	MYB	0	33.3	4	4	3	4	3	4	3	2	4
2.	Gold Crest	1-5506	L ₂	74	1129	3.4	.51	6.3	1.50	52	56	55	-	-	-	-	-	7.7	MYB	0	39.5	3	4	3	3	3	4	3	2	3
48.	Earliking	1907T	H ₁	74	960	3.3	.57	6.8	1.60	55	75	105	-	-	-	-	-	8.5	MYB	0	48.0	4	4	3	4	3	3	3	2	2
5.	Morning Sun	-	H ₂	77	1268	4.8	.63	7.3	1.55	-	-	55	40	5	-	-	-	8.8	LYB	0	53.3	3	3	4	5	3	2	3	3	3
3.	Seneca Sunbeam 1010LF		R ₁	77	1222	4.6	.63	7.2	1.50	-	5	90	5	-	-	-	-	8.2	MYB	0	39.6	4	3	3	4	3	4	3	3	2
4.	Golden Beauty	1887T	H ₁	77	1145	3.8	.55	6.2	1.55	-	5	95	-	-	-	-	-	8.4	MYB	0	44.3	4	4	3	3	3	4	3	2	4
6.	Golden Beauty	1885T	H ₁	78	1368	5.3	.63	7.6	1.55	-	-	100	-	-	-	-	-	8.2	LYB	0	42.1	4	4	3	3	4	4	3	3	3
7.	Northern Belle	1899T	H ₁	78	1537	5.3	.57	7.6	1.50	-	-	5	50	45	-	-	-	7.7	MYB	0	42.5	3	3	3	4	3	3	2	3	4
8.	Golden Hyb. G101	ST 88038	H ₁	78	1229	4.0	.60	7.5	1.50	-	-	100	-	-	-	-	-	8.4	MYB	-	34.1	5	4	3	3	3	4	3	2	3
10.	Honey Gold	-	H ₂	78	1214	3.8	.52	7.5	1.40	-	-	65	30	5	-	-	-	7.7	MYB	0	39.9	3	4	3	3	3	4	3	3	3
46.	Tendergold	63064F40	A ₂	79	1575	6.1	.64	7.9	1.55	-	-	75	-	25	-	-	-	8.7	MYB	0	28.9	4	3	5	5	3	5	3	4	4
11.	Sugar King	1-13506	L ₂	79	1837	4.9	.61	7.5	1.45	-	-	-	25	60	15	-	-	7.2	MYB	0	38.5	3	3	5	5	3	3	3	2	3
100 @ 5% Level					233	0.9																								

Table 1 (con'd)
VEGETABLE CROPS SUBSTATION
SWEET CORN VARIETY TRIALS - MARIETTA, OHIO

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VC '61 p. 4

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